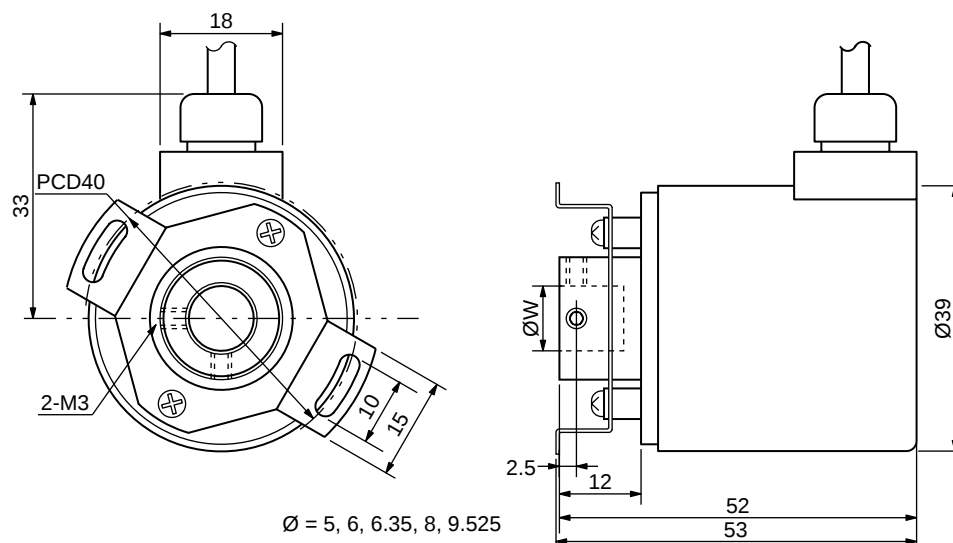


**IP65
Dust Proof
Drip Proof**

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Electrical Specifications

TYPE		2/2M	C/MC	HC/MHC	MT/MHT	MD
Supply Voltage		4.5 ~ 13.2VDC		10.6 to 26.4 VDC		5.0 VDC ±5%
Current		50mA max	60mA max			150mA max
Output Voltage	H	Vcc -1V	—————		Vcc -3V	≥ 2.5V
	L	≤ 0.5V			≤ 3.0V	≤ 0.5V
Sink Current		20mA max			40mA max	20mA max
Signal Risetime		≤ 1μS				≤ 200 nS
Freq. Response		200kHz				

Mechanical

1. Max Shaft Load, radial: 2.0 kgf
axial: 1.0 kgf
2. Moment of Inertia: 12.0 g•cm²
3. Angular Acceleration: 1x10⁵ rad/S²
4. Max Slewing Speed: 6000 RPM
5. Starting Torque: 50 gf•cm max.
6. Rotational Life: 1 x 10⁸ rpm•hrs

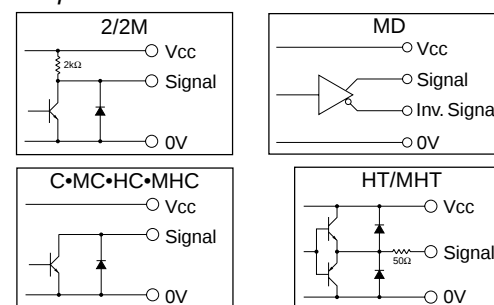
Environmental

1. Operating Temp: -10° to +70° C
2. Storage Temp: -30° to +80° C
3. Humidity: ≤ 85% RH, no condensation
4. Vibration: 10~55 Hz, 1.5 mm, 2 hrs
5. Shock: 30G, 11ms, 3 axes, 3 reps
6. Protection: IP65

Standard Resolutions

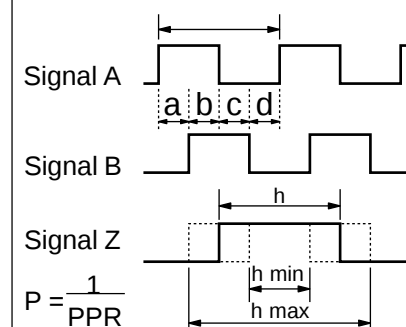
NHF-XXX			
003	30 P/R	0646	646 P/R
01	100 P/R	08	800 P/R
02	200 P/R	09	900 P/R
025	250 P/R	10	1000 P/R
0256	256 P/R	1024	1024 P/R
03	300 P/R	12	1200 P/R
036	360 P/R	15	1500 P/R
04	400 P/R	18	1800 P/R
05	500 P/R	20	2000 P/R
0512	512 P/R	2048	2048 P/R
06	600 P/R	25	2500 P/R

Output Circuits



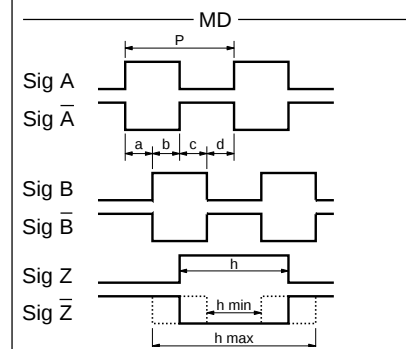
Output Waveform

Clockwise rotation viewed from front
M,C,MC,MHC,HT,MHT



$$a, b, c, d = \frac{P}{4} \pm \frac{P}{8} \quad h = P \pm 0.75P$$

Wave Duty Ratio: 50% ± 25%



Ordering Information

NHF-□□□-□□□□-□□□□-□□□□

Resolution(P/R)
Channels: 2=A/B
M=Index Channel

Output Type:
" " = TTL Voltage
C = Open Collector
T = Push-Pull
D = Diff Driver

Shaft Bore:
500 = Ø5mm
600 = Ø6mm
635 = Ø6.35mm
800 = Ø8mm

Cable Length:
050 = 0.5m
100 = 1.0m
300 = 3.0m

CUI Stack, Inc. 9615 SW Allen Blvd. #103 Beaverton, OR 97005 Tel: 503/643-4899 FAX: 503/643-6129			
DRAWN BY JAS	UPDATED 02/05/01	CHECKED 02/05/01	RELEASED
PART NO. NHF-XXX-2XXX-XXX-XXX			REV. A